

# Satellite® A70 Series Notebook

## Feature Model(s):

Satellite A70-S256	Mobile Intel® Pentium® 4 processor 532 supporting Hyper-Threading Technology 3.06 GHz, 15.4" WXGA, 512MB, 60GB (4200 RPM), DVD-CDRW, Modem/LAN/802.11g Wi-Fi, WinXP Pro	PSA70U-00D006	UPC CODE: 032017251274
Satellite A70-S2561	Mobile Intel® Pentium® 4 processor 532 supporting Hyper-Threading Technology 3.06 GHz, 15.4" WXGA, 512MB, 60GB (4200 RPM), DVD-CDRW, Modem/LAN/802.11g Wi-Fi, WinXP Home	PSA70U-00D009	UPC CODE: 032017251281
Satellite A70-S2362	Intel Celeron D Processor 325 (2.53GHz), 15.4" WXGA, 512MB, 40GB (4200RPM), DVD-CDRW, Modem/LAN/802.11g Wi-Fi, i.LINK® 1394, CD-Keys, 5-in-1 Media Reader, Win-XP-Pro	PSA70U-00Y00F	UPC CODE: 032017255418

## System Characteristics<sup>1</sup>

Custom configuration options and optional items listed below are highlighted.

### Operating System

- Microsoft Windows XP-Pro (A70-S256 & A70-S2362)
- Microsoft Windows XP-Home Edition (A70-S2561)
- Microsoft Windows 2000 (Components Only)

### Processor<sup>2</sup> and Chipset

- Mobile Intel® Pentium® 4 processor 532 supporting Hyper-Threading Technology 3.06 GHz
- ATI® Mobility RADEON™ 9000 IGP 64MB of shared video memory.
- 1MB Level 2 cache memory integrated on die, (256KB L2 Cache for Celeron D model)
- 533MHz Processor System Bus Clock Speed

### Memory

- 512MB (1DIMM) fixed memory module with 1 available upgradeable slot expandable to 1,536MB  
Optional expansion memory: PC2700 (DDR 256MB/512MB/1024MB) SODIMM: Memory compatible with PC2700 DDR333

### Mass Storage<sup>3</sup>

- 80GB (4200rpm & 5400rpm), 60GB (4200rpm & 5400rpm)
- 2.5" Enhanced IDE (ATA-6) hard disk drive: 9.5mm height

### Optical Drives

- FIXED DVD-ROM/CDRW Multi-function drive:** Enhanced IDE (ATAPI) Interface; Maximum read speed: CD-ROM, CD-R (24x), CD-RW (12x), CD-ROM (24x), DVD-ROM (8x); DVD-R, DVD-RW (4xMax), DVD-RAM (2xMax).
- Maximum write speed: CD-R (24xMax), CD-RW (4xMax), HS CD-RW (10xMax), US CD-RW (24xMax).
- FIXED Dual Super Multi-Driver:** Enhanced IDE (ATAPI) Interface; Maximum read speed: CD-ROM, CD-R (24x); CD-RW (12x); DVD-ROM (8x); DVD-R (4x); DVD-RW (2x); DVD+R (2.4Max); DVD+RW (2.4Max); DVD-RAM (2x Max).
- Maximum write speed: CD-R (16 Max), CD-RW (4 Max), HS CD-RW (8 Max), DVD-R (4 Max), DVD-RW (2xMax), DVD+R (2.4x Max), DVD+RW (2.4), DVD-RAM (2x Max).

### Display<sup>4</sup>

15.4" widescreen TFT WXGA LCD, display supports up to 16M colors at 1280X800

- Brightness control

### Graphics

- ATI® Mobility Radeon™ 9000 IGP with 64MB of shared video memory
- DirectX8 supported by hardware and Direct X9 supported by software
- Direct 3D support and DirectVideo
- External Color Support/Refresh rate:
 

640 x 480	16bit/32bit colors
800 x 600	16bit/32bit colors
1024 x 768	16bit/32bit colors
1280 x 800	16bit/32bit colors
1280 x 1024	16bit/32bit colors
1600 x 1200	16bit/32bit colors
1920 x 1440	16bit/32bit colors
2048 x 1536	16bit/32bit colors

### Input Devices

- Keyboard: Full sized 85 keys with 12 function keys, 2.7mm key stroke, 6mm height; Dedicated Windows® keys support; HotKey function; TouchPad pointing device

### Expandability

- 1 Memory Card Expansion Slot Available
- 1 PC Card slot support 1 Type II PC Card

### Communications<sup>5</sup>

- Integrated V.92/56K modem; Data and fax support
- Integrated 10/100 Ethernet LAN
- Integrated Wireless LAN (Atheros 802.11b/g)

### Ports

- Parallel printer port
- RGB (monitor) port
- 3 Universal Serial Bus ports (USB)
- TV-Out Port
- RJ-45 LAN Port
- RJ-11 modem port
- FIR
- IEEE1394
- 5-IN-1 Bridge Media (Select Model Only)

### Physical Description<sup>6</sup>

- Dimensions (LxWxH): 14.4" x 10.8" x 1.5/1.8 (2.1" w/feet)
- Weight: 7.98 lbs.
- LED Indicators: Power, Power Save Mode, HDD, CD/DVD-ROM Access, DC-IN, Caps Lock, Arrow, Numeric, Main Battery Charging Status, System Sleep / Suspend status, Wireless Communication switch

### Sound

- Realtek ALC250 Codec Chip; Software Sound
- Built-in stereo speakers; Sound Volume (by dial), Direct 3D Sound, DirectMusic, MIDI Playback Support; Full Duplex Support
- Ports: External Microphone port, headphone port

### Power Supply

- AC Adapter: 120W external AC Adapter, 100-240V / 50-60Hz frequency (Universal) input voltage, 19V x 6.3A Output, Dimensions (LxWxH): 5.91" x 2.56" x 1.48" Weight: 1.4lbs
- Battery Pack: 12-cell, rechargeable, removable Lithium Ion (Li-Ion) battery, 14.8V x 6450mAh
- Dimensions (LxWxH): 10.7" x 2.82" x 1.04" Weight: 1.49 lbs.
- Battery Saver (in Windows XP): Stand by, HDD Auto Off, Display Auto Off, Throttling, Hibernation
- Battery life (main batt): Up to 2 Hrs (see battery section)
- Recharge time (main batt): Up to 12H(system on) Up to 4H(system off)

Battery life may vary depending on applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack or see information on accessories shipping with your computer, visit the Toshiba website at [www.accessories.toshiba.com](http://www.accessories.toshiba.com)

### Security

- Slot for computer lock, HDD (6 screws) and memory (1 screw), User Power-on password, Setup Security, Screen Blank (by Hotkey), Screen Saver (by software)

### Bios

- ACPI, PnP, VESA, DPMS, DDC, SM BIOS, PC BIOS support, Boot Device

### Toshiba Software and Utilities

- Toshiba Speech System
- Toshiba Notebook Maximizer
- Toshiba ConfigFree™ software
- Toshiba Custom Utilities

## Additional Software

- Microsoft® Works®
- Microsoft® Office® OneNote™ 2003
- Software Decoder: InterVideo® (Win-DVD™ 5) –w/SRS TruSurround XT® Technology (SRS TruSurround XT® Technology Features: TruSurround, SRS Dialog Clarity, Enhancement & TruBass)
- Microsoft® Office® 2003 Student/Teacher Edition 60-Day Trial Version
- Sonic RecordNow Application & DSL Writing Software
- ArcSoft ShowBiz DV Version 1.3
- Intuit® Quicken® New User Edition 2004
- Norton® AntiVirus™ 2003 – w/3-Month Subscription
- AOL® (3 -Month offer)
- AOL OFFER DETAILS: Availability may be limited, especially during peak times. TO AVOID BEING CHARGED A MONTHLY MEMBERSHIP FEE, SIMPLY CANCEL BEFORE THE THREE-MONTH PROMOTIONAL PERIOD ENDS. Premium services carry surcharges and communication surcharges may apply, including AOL, even during promotional period. Members may incur telephone charges on their phone bill, depending on their location and calling plan, even during promotional period. Available to new AOL members in the United States, age 18 or older; a major credit card or checking account is required.
- Adobe® Acrobat Reader
- AT&T® WorldNet® Service – 1 Month FREE  
–Telephone access and other charges and other terms and conditions may apply. Offer available to new customers only.
- QuickTime™ Player
- RealOne™ Player 8 Basic
- Microsoft® Internet Explorer
- WIN-DVD4
- Napster Download Trial

## Environmental

- Temperature: Operating: 5° to 30°C (41° to 86°F); Non-operating: -20° to 55°C (-4° to 131°F)
- Thermal gradient: Operating: 15°C per hour maximum; Non-operating: 20°C per hour maximum
- Relative Humidity: Operating: 20% to 80%; Non-operating: 10% to 90%
- Altitude (relative to sea level): Operating: -60 to 3000 meters; Non-operating: -60 to 10,000 meters
- Shock: Operating: 10G; Non-operating: 60G
- Vibration: Operating: 0.5G; Non-operating: 1.0G

## SelectServ® Warranty Programs

• Warranty Extensions to 3 Years	SWP-PEQQ3V
• 3 Year SystemGuard	SWP-PEGQ3V
• 3 Year Depot Express	SWP-PEQX3V
• 3 Year Business On-Site Repair; Next Day Business Day Response	SWP-PEQN3V
• 3 Year SystemGuard + Depot Express	SWP-PEGX3V
• 3 Year SystemGuard + Business on Site Repair, Next Bus. Day Response	SWP-PEGN3V

## Selected Accessories

Category	Part Number	Description
AC adapter	PA3290U-2ACA...	Toshiba 120W Global AC Adapter (smaller tip)
Primary Battery	PA3383U-1BRS	Toshiba Li Ion Battery (12 cell)
FDD ..	PA3109U-1FDD	Toshiba USB FDD Kit
Input ..	PA1336U-1NKB...	Toshiba USB Keyboard
Input ..	PA1337U-1NMS	Toshiba USB Optical Mouse
Memory ..	KTT331/2/1256	Kingston 256MB Memory
Memory ..	KTT331/1/512	Kingston 512MB Memory
Cases ..	PA1335U-1NCS	Toshiba Ambassador Leather Case
Cases ..	NWCER2	Excursion Roller 16"
Cases ..	PA1362U-1NCS	Toshiba BackPack
Cases ..	PA1360U-1NCS	Toshiba Nylon Case
Cases ..	PA1361U-1NCS	Toshiba Executive Leather Case
Security ..	NWDFCL	Targus-Noteworthy DEFCON CL Cable Lock
Storage & Back-up ..	HDD123ZCP41002	Toshiba 5GB Type II PC Card HDD w/Back-up software
Storage & Back-up ..	ABSPLUS-60.0	CMS ABSplus 60GB PCMCIA Automatic Backup System
Storage & Back-up ..	ABSPLUS-80.0	CMS ABSplus 80GB PCMCIA Automatic Backup System
Storage & Back-up ..	UABS2-60.0	CMS ABSplus 60GB USB 2.0 Automatic Backup System
Storage & Back-up ..	UABS2-80.0	CMS ABSplus 80GB USB 2.0 Automatic Backup System

Go to [www.accessories.toshiba.com](http://www.accessories.toshiba.com) for additional, available accessories

**SUBJECT TO CHANGE:** While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, items/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at [toshiba.com](http://www.toshiba.com).

### Central Processing Unit ("CPU") Performance Disclaimer.

CPU performance in your computer product may vary from specifications under the following conditions:

- use of certain external peripheral products
- use of battery power instead of AC power
- use of certain multimedia games or videos with special effects
- use of certain graphics cards or monitor resolutions
- use of computer in areas with low air pressure (high altitude > 1,000 meters or >3,280 feet above sea level)
- use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86°F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please refer to your Resource Guide or visit the Toshiba website at [www.pcsupport.toshiba.com](http://www.pcsupport.toshiba.com) for details).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of loss of data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. For optimal performance, we recommend that you use recommended components. Read additional restrictions under "Environment Conditions" in your product Resource Guide. Contact Toshiba Technical Services for more information.

**Hard Disk Drive Disclaimer:** 1 Gigabyte (GB) means  $1000 * 1000 * 1000 = 1,000,000,000$  bytes using powers of 2 for the definition of 1 GB =  $1024 * 1024 * 1024 = 1,073,741,824$  bytes, and therefore may show less storage capacity. Available storage capacity will also be less if the product includes pre-installed operating system and/or application software. Actual formatted capacity may vary.

**TFT Display Disclaimer:** Small bright dots may appear on your TFT display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology.

\*\*\*Weight: Weight of the computer depends on actual configuration.

**Wireless or Connectivity Claims.** Wireless connectivity is subject to availability of access points. You might have to purchase additional software, hardware and/or services or pay for phone charges and air time, etc. to achieve the functionality as advertised.

**Weight Disclaimer:** Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

**Battery:** Battery life may vary depending on product model, configuration, applications, power management settings and features utilized.

Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see the accessories information that shipped with your computer or visit the Toshiba web site at [www.accessories.toshiba.com](http://www.accessories.toshiba.com).

## Return Policy

TAIS does not accept the return of component parts, or bundled software, which have been removed from the PC system. Pro-rata refunds on individual PC components or bundled software, including the operating system, will not be granted. If you wish to return a complete PC system, contact the TAIS dealer where you purchased the product and comply with the dealer's standard return policies and procedures.

### Subject to Change

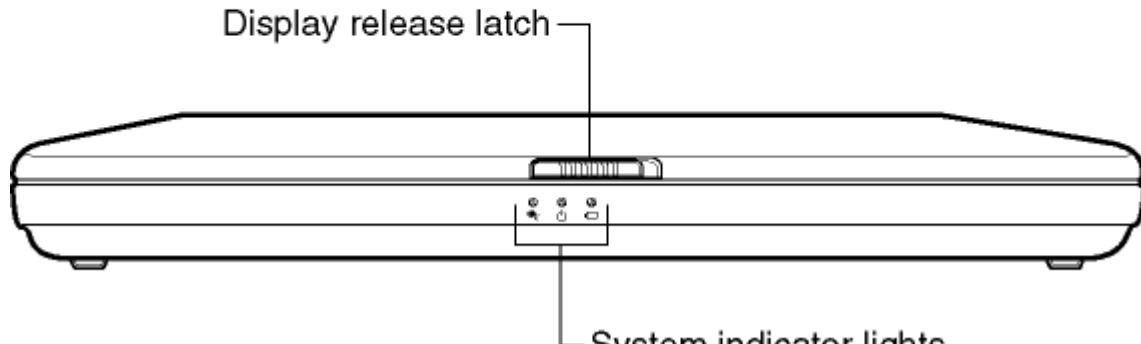
While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at [pcsupport.toshiba.com](http://pcsupport.toshiba.com)

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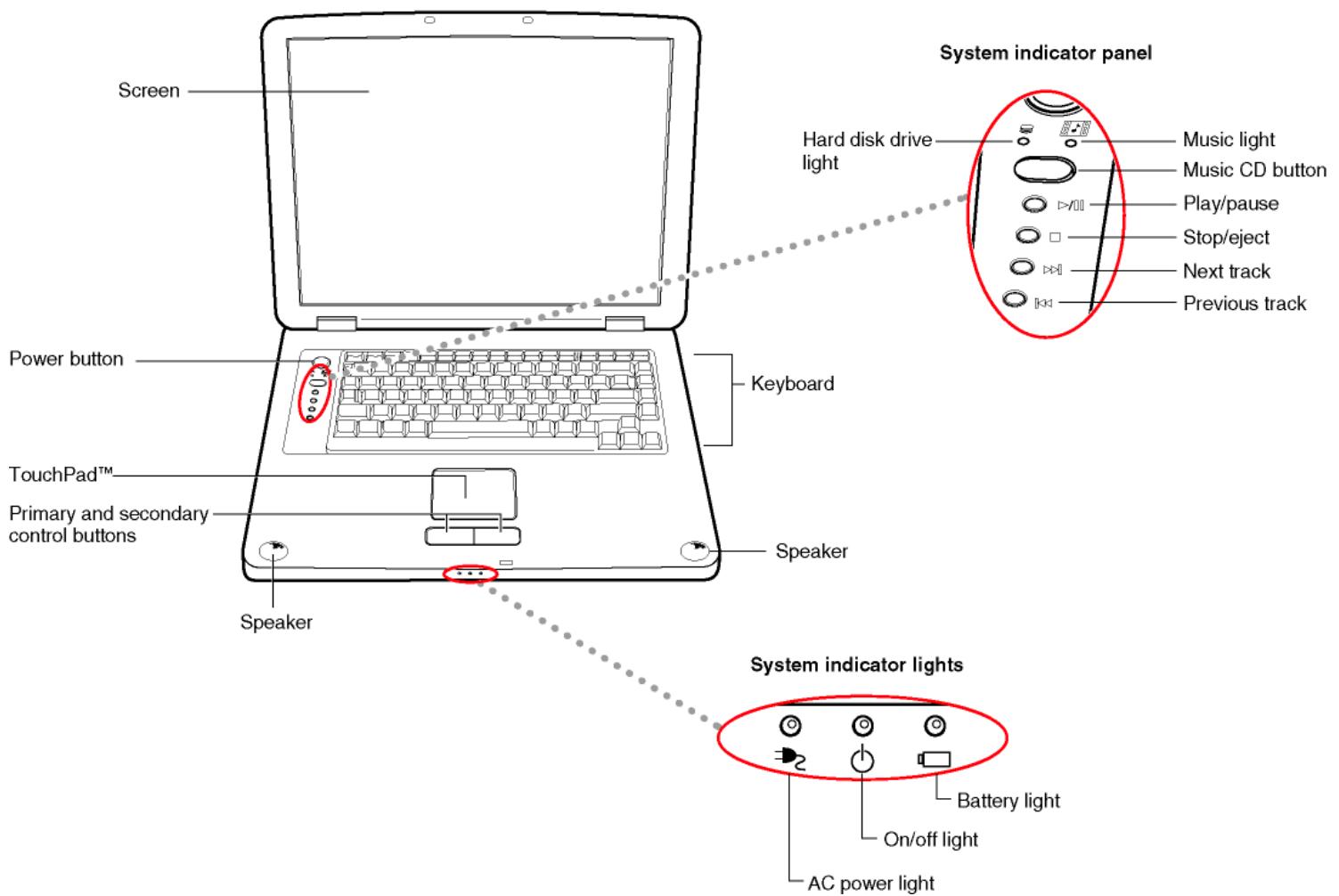
### "Business Winstone 2002 BatteryMark Version 1.0" Score

Battery Life	Catalog Spec (1st) (1st+2nd)	2H	2H
Number of Conditioning Phase	1	1	
Life Test Run	3	3	
A CPU Name	Mobile Intel® Pentium® 4 processor 518 with HT Technology	Mobile Intel® Pentium® 4 processor 538 with HT Technology	
Processor info	speed number of processors amount of RAM Amount of secondary RAM cache	2.8GHz 1 512MB 1MB	3.2GHz 1 512MB 1MB
B Battery	type(1st)  model number(1st) type(2nd)  model number(2nd) number of batteries	Li-Ion  PA3383U-1BRS/BAS -  - 1	Li-Ion  PA3383U-1BRS/BAS -  - 1
C Graphics	ATI Mobility Radeon 9000IGP amount and type of RAM graphics driver name and version graphics resolution and color depth, refresh rate	UMA V8.01 1280x800, 32bit, 60Hz	ATI Mobility Radeon 9000IGP UMA V8.01 1280x800, 32bit, 60Hz
D hard disk capacity	60G (4200rpm)	80G (4200rpm)	
hard disk file system & transfer mode	Enhanced IDE(ATA-6)	Enhanced IDE(ATA-6)	
hard disk controller model	ATI IXP150	ATI IXP150	
size of hardware cache if any	-	-	
E operating system version, service pack	Windows XP Professional Savice Pack 1	Windows XP Professional Savice Pack 1	
other special conditions	N/A	N/A	
F BIOS version	1.00	1.00	
			Business Winstone 2002 BatteryMark Version 1.0 Model#1.2
Power Save Mode	Cooling Method Intel SpeedStep(R) Technology Processor speed  Monitor brightness (* See Notes)  Turn off monitor  Turn off hard disks  System standby  System Hibernate	MaximumPerformance - 100%-75% 74%-50% 49%-25% 24%-0%  100%-75% 74%-50% 49%-25% 24%-0%  100%-75% 74%-50% 49%-25% 24%-0%  100%-75% 74%-50% 49%-25% 24%-0%  100%-75% 74%-50% 49%-25% 24%-0%	
System Power Mode	When I press the power button When I close the lid Prompt for password when computer goes off Standby or Hibernation	Power off Hibernate Off	
Alarm	Activate low battery alarm when power level reaches Low Battrey Alarm Action  Activate critical battery alarm when power level reaches Critical Battrey Alarm Action	Off Sound alarm Display message When the alarm goes off, the computer will: When the alarm occurs, run this program:  Off Sound alarm Display message When the alarm goes off, the computer will: When the alarm occurs, run this program:	
Hibernate	Enable Hibernate Support	On	
SoundMAX Audio Power Management	Power Mode Timer Setting Internal Speakers	- Instant Power Save Power Save Delay Power Down	
NVIDIA GeForce4 420 Go	Display Properties - Setting-Advanced - nView - *** Go - PowerMizer	-	

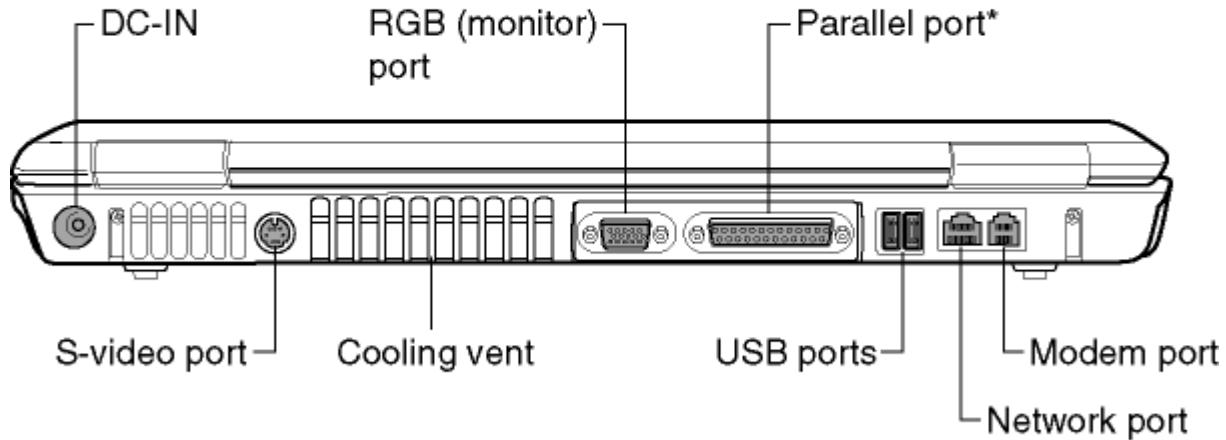
# Front with display closed



## Front with display open

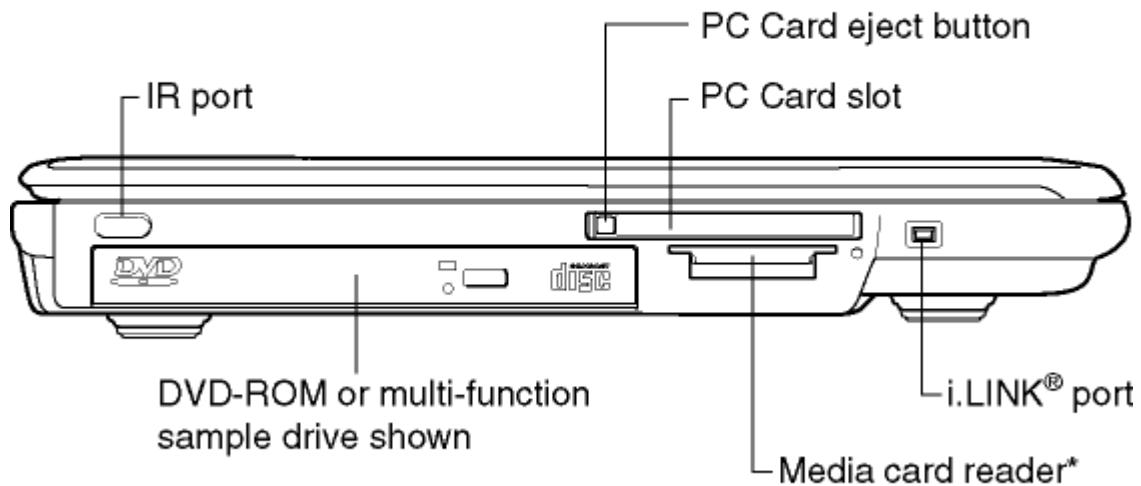


# Back



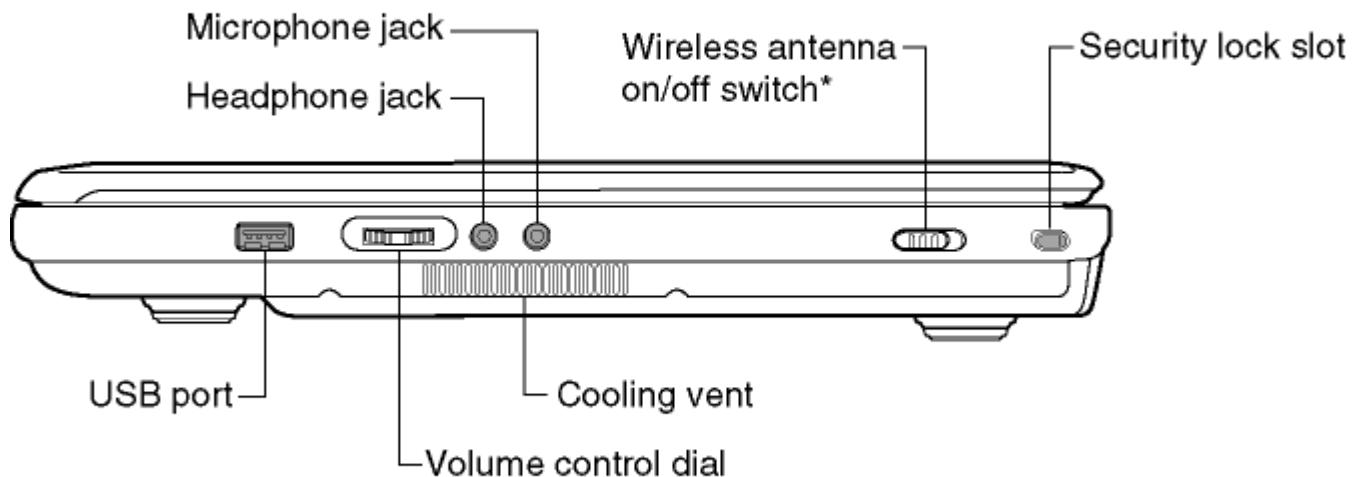
\*Only on selected models.

# Left side



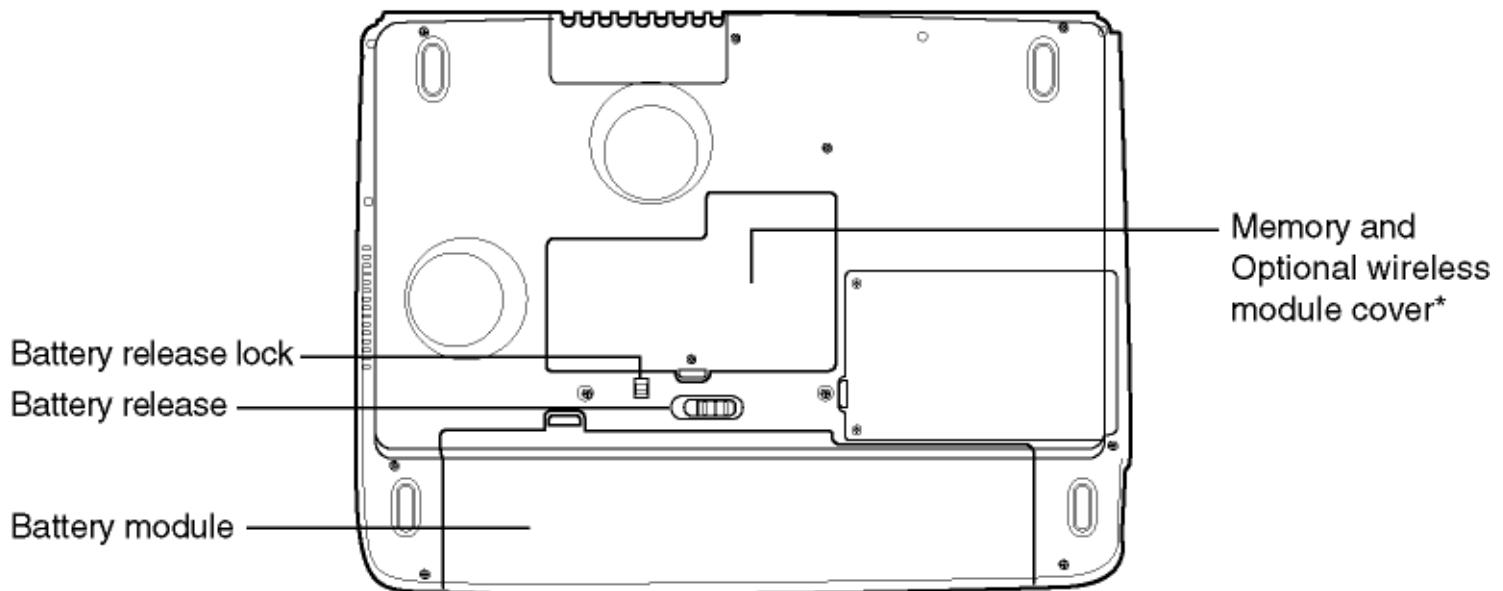
\*Only on selected models.

# Right side



\*Functional only on systems with wireless module installed.

# Underside



\*Functional only on systems with wireless module installed.